epth 6	Contents 7	Reference to last Measurement 8
14426-00		
57704-00		
14426-00		
1443-00		
1280-00		
100800-00		

First & Final Bill

SBRVO-58/16-17

R: 27-6-16

M.A.R. 57 (Rule 116)

Measurement Book

No. C/09 231332

Serial No.....

Name of work... Construction of RCC Drain and covering Slabs near Raghavendra Mata at Venkatgiridyappa Layout in ward No.-10.

Name of Contractor of nature of Agency... Sri. M.N. Shivakumar

Date of commencement of work.....

BR-~~23~~26/27-6-16

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Work code NO:	010-16-00019					
	Head of Account:	P1771					
	Administrative Approval NO:	BBMP/CE/YNK/PR/57/LS-16, Dt 14-12-2015.					
	Technical Sanction NO:	BBMP/EE/BTP/PR/246/LS-16, Dt 14-12-2015					
	Work order NO:	EE/BTP/BBMP/E-PMT/301/2015-16 Dt 23-03-2016.					
	Address of Agency:	#7, 2nd Block Jagannahalli, Rajaji Nagar Bangalore.					

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Measurement Recorded on 06/04/2016						
	1) Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2meters and an average lift upto 0.5mt. excavated Surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications etc						
	CC Road	1	30.00	(6.0+5.3)/2	0.20	= 33.60 Cum	
		1	8.40	(5.3+5.0)/2	0.20	= 8.65 Cum	
	Desilting of drains						
	Raghavendra Matta Road RLS	1	26.50	0.45	0.35	= 4.17 Cum	
		1	3.00	0.45	0.40	= 5.58 Cum	
		1	22.80	0.45	0.35	= 3.59 Cum	
		1	30.00	0.45	0.40	= 5.40 Cum	
		1	8.00	0.45	0.40	= 1.62 Cum	
	Raghavendra Matta Road LLS	1	17.00	0.45	0.35	= 2.68 Cum	
		1	34.00	0.45	0.45	= 6.28 Cum	
		1	28.00	0.45	0.40	= 5.04 Cum	
					Total =	76.91 Cum	

Serial No.....

Name of work.....

Name of Contractor of nature of Agen

Date of commencement of work.....

Date	Full description, etc, of work	N
1	2	
	Office Mahadev Atg Li	
	ಸ.ಕ.ಅ.	
	2) Providing and filling and down Size, with including cost of all as per Specifications.	ap m
	Drain	
	Raghavendra Matta Road RLS	

Depth 6	Contents 7	Reference to last Measurement 8
ordinary soil involving an average lift upto 0.5mt. excavated disposed earth to be levelled per specifications etc		
0.20 =	33.80 Cum	
0.20 =	8.65 Cum	
0.35 =	4.17 Cum	
0.40 =	5.58 Cum	
0.35 =	3.59 Cum	
0.40 =	5.40 Cum	
0.40 =	1.62 Cum	
0.35 =	2.68 Cum	
0.45 =	6.28 Cum	
0.40 =	5.04 Cum	
Total =	76.91 Cum	

M.A.R. 57 (Rule 116)

Measurement Book

No. C/09 231333

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Office Mahadev Atg S.D.E. limited to Tender @ Rs 83.00				=	72.00 Cum Rs 5976.00	
2)	Providing and filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hard packing, ramming watering including cost of all materials and labour with all lead lift etc complete as per specifications.						
	Drain Raghavendra Matta Road RLS	1	26.50	0.80	0.30 =	7.16 Cum	
		1	31.00	0.80	0.35 =	8.68 Cum	
		1	22.80	0.80	0.45 =	8.23 Cum	
		1	30.00	0.80	0.45 =	12.15 Cum	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Raghavendra Matta Road LLS	1	9.00	0.90	0.45 =	3.65 Cum	
		1	17.00	0.90	0.45 =	6.89 Cum	
		1	34.00	0.90	0.45 =	17.56 Cum	
		1	28.00	0.90	0.45 =	11.34 Cum	
					Total =	42.73 Cum	72.75
		Qty limited to tender			=	72.00 Cum	
		@ RS 2174.00				RS 156528.00	
						Sadha AE 06/04/2016	
	Measurement continued on 16/04/2016						
3)	providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180 kgs with 40mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregates machine mixed, concrete laid in layers not exceeding 15cms. thick well compacted in foundation and plinth including cost of all materials.						
	C.C. Road	1	30.00	(6.0+5.30)/2	0.20 =	33.90 Cum	
	R.C.C. drain	1	8.40	(5.3+5.0)/2	0.20 =	8.65 Cum	

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Serial No.....

Name of work.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number
1	2	3
	Raghavendra Matta Road RLS	1
		1
		1
		1
		1
	Raghavendra Matta Road LLS	1
		1
	5th Cross Culvert	1
	4th Cross Culvert	1
	5th Cross OPP Culvert	1

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dth	Depth 6	Contents 7	Reference to last Measurement 8
	0.45 =	3.65 Cum	
	0.45 =	6.89 Cum	
	0.45 =	12.56 Cum	
	0.45 =	11.34 Cum	
	Total =	42.73 Cum	
nder	=	72.00 Cum	

Rs 156528.00

Sadha
AE 06/04/2016

ment concrete of mix 1:4:8 with
wn size graded granite metal coarse
machine mixed, concrete laid in
mpacted in foundation and plinth

30)	0.20 =	33.60 Cum	
.0)	0.20 =	8.65 Cum	

M.A.R. 57 (Rule 116)

Measurement Book

No. C/09 231334

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Raghavendra Matta Road RLS	1	26.50	0.45	0.10 =	1.19 Cum	
		1	31.00	0.45	0.10 =	1.40 Cum	
		1	22.80	0.45	0.10 =	1.03 Cum	
		1	30.00	0.45	0.15 =	2.03 Cum	
		1	9.00	0.45	0.15 =	0.61 Cum	
	Raghavendra Matta Road LLS	1	17.00	0.45	0.10 =	0.77 Cum	
		1	31.00	0.45	0.15 =	2.09 Cum	
		1	28.00	0.45	0.10 =	1.26 Cum	
	5th Cross Culvert	1	5.80	0.60	0.15 =	0.52 Cum	
	4th Cross Culvert	1	5.20	0.60	0.15 =	0.47 Cum	
	5th Cross OPP Culvert	1	7.50	0.60	0.15 =	0.68 Cum	
					Total =	54.58 Cum	

54.60

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	C/F-e Mohur	Qty limited to Tender =				50.00 Cum	
		@ Rs 4500.00				Rs 243000.00	
	(4) Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kg/ with 20mm and down size graded granite metal coarse aggregate machine mixed, concrete laid in layers not exceeding 15cms thick well compacted, in foundation, plinth and sills including cost of all materials						
	R.C.C. Drain						
	Raghavendra Matta Road RLS	L	26.50	0.60	0.10 =	1.59 Cum	
		L	31.00	0.60	0.10 =	1.86 Cum	
		L	22.80	0.60	0.10 =	1.37 Cum	
		L	30.00	0.60	0.10 =	1.80 Cum	
		L	9.00	0.60	0.10 =	0.54 Cum	
		L	17.00	0.80	0.10 =	1.36 Cum	
	Raghavendra Matta (Cross Culvert) Road LLS	L	31.00	0.80	0.10 =	2.48 Cum	
		L	28.00	0.80	0.10 =	2.24 Cum	
	5th Cross Culvert	L	5.80	1.50	0.10 =	0.87 Cum	

Serial No.....

Name of work.....

Name of Contractor of nature o

Date of commencement of work

Date	Full description, etc, of wo
1	2
	4th Cross Culvert
	5th Cross OPP Culvert
	C/F-e Mohur
(5)	Providing T.M.T Cutting, bending, wherever required adjoining mem and wastage St

K

	Depth 6	Contents 7	Reference to last Measurement 8
		ender = 54.00 Cum	
		Rs 243000.00	
		concrete of mix 1:2:4 with cement	
		ed granite metal coarse aggregate	
		exceeding 15cms. thick well	
28		including cost of all materials	
	0.10	= 1.59 Cum	
	0.10	= 1.86 Cum	
	0.10	= 1.37 Cum	
	0.10	= 1.80 Cum	
	0.10	= 0.54 Cum	
	0.10	= 1.36 Cum	
	0.10	= 2.48 Cum	
	0.10	= 2.24 Cum	
	0.10	= 0.87 Cum	

M.A.R. 57 (Rule 116)

Measurement Book No. C/09 231335

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	4th Cross Culvert Checked	L	5.20	1.50	0.10 =	0.78 Cum	
	5th Cross OPP Culvert	L	7.50	1.50	0.10 =	1.13 Cum	6.02
	C & RE Measured 2716				Total =	16.01 Cum	
	S.D.O. (Rly.) S.D.O.	limited to tender @ Rs 5490.00			=	16.00 Cum	
						Rs 8784.00	
						15 lakh 16	
(5)	Providing T.M.T Steel reinforcement for RCC work including Straightening Cutting, bending, hooking Placing in position lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design Cleps, hooks and weftage shall not be measured and Paid).						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Qty vide premeasurement of page No - 23/387 of this M.B. No - 234						
					Total = 0.684		
		@ Rs	650000			Rs 44250.00	16/04/16
6)	Providing and removing centering, shuttering, Strutting propping etc and removal of form work for Vertical Surface Such as walls at any thickness including attached pilasters, buttresses, plinth and String courses cost of all materials labour etc						
	For R.C.C. drain						
	Raghavendra Matta Road Right Side	4	26.50		0.30	= 31.80 Sqm	
		4	31.00		0.30	= 37.20 Sqm	
		4	22.80		0.30	= 27.36 Sqm	
		4	30.00		0.30	= 36.00 Sqm	
	Raghavendra matta Road left Side	4	9.00		0.30	= 10.80 Sqm	
		4	17.00		0.30	= 20.40 Sqm	

Serial No.....

Name of work.....

Name of Contractor of nature of A

Date of commencement of work....

Date	Full description, etc, of work
1	2
	C/F Measurement ಸ.ಕಾ.ಅ. 16
7)	Measurement Cont... providing and layi... jelly of ready mi... layers and well co... necessary cement ... pumping of concr...

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th	Depth 6	Contents 7	Reference to last Measurement 8
–	23/387		
	Total = 0·65Cum		
		Rs 42250·00 16/04/16	
ing, Struting propping etc. and face such as walls at any thickness plinth and string courses cost of			
	0·30 = 31·80Sqm		
	0·30 = 37·20Sqm		
	0·30 = 27·36Sqm		
	0·30 = 36·00Sqm		
	0·30 = 10·80Sqm		
	0·30 = 20·40Sqm		

M.A.R. 57 (Rule 116)

Measurement Book No. C/09 231336

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	C/F Mowo 16/4/16 S.R.E.	4	31·00		0·45 =	55·80 Sqm	
		4	28·00		0·45 =	50·40 Sqm	
					Total =	269·76 Sqm	
	Qty limited to Tender @ Rs306·00				=	264·00 Sqm	
						Rs 80784·00	
7)	Measurement Continued on 25/5/2016					Sadha AE 16/4/2016	
	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC) for R.C.C works laid in 15cms thick layers and well compacted Vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete with all lead and lifts etc.						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	For CC Road	1	30.00	$\frac{(6.00+5.30)}{2}$	0.125 =	7.19 Cum	
		1	8.40	$\frac{(5.3+5.0)}{2}$	0.125 =	5.41 Cum	
	RCC Drain						
	Raghavendra math Road Right Side	2	26.50	0.15	0.40 =	3.18 Cum	
		2	31.00	0.15	0.45 =	4.19 Cum	
		2	22.80	0.15	0.40 =	2.74 Cum	
		2	30.00	0.15	0.45 =	4.05 Cum	
	Raghavendra math Road Left Side	2	9.00	0.15	0.45 =	1.22 Cum	
		2	17.00	0.15	0.40 =	2.04 Cum	
		2	31.00	0.15	0.40 =	3.72 Cum	
		2	28.00	0.15	0.40 =	3.36 Cum	
		2	19.00	0.15	0.40 =	2.28 Cum	
	Culvert Deck Slab	12	1.50	0.60	0.23 =	2.48 Cum	
					Total =	55.85 Cum	
		Qty limited to tender @ Rs 6300.00			=	55.80 Cum	Rs 351540.00

CAFE Mahadev

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Serial No.....

Name of work.....

Name of Contractor of nature of Agen

Date of commencement of work.....

Date	Full description, etc, of work
1	2
8)	Vaccum De-watering with Skim floater Cl HOM of machinary Fo CC Road
9)	Measurement conta Providing groove Cuttin including cost of C

CAFE Mahadev 25/5

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h	Depth 6	Contents 7	Reference to last Measurement 8
30)	0·125 =	21·19 Cum	
e)	0·125 =	5·41 Cum	
	0·40 =	3·18 Cum	
	0·45 =	4·14 Cum	
	0·40 =	2·74 Cum	
	0·45 =	4·05 Cum	
	0·45 =	1·22 Cum	
	0·40 =	2·04 Cum	
	0·40 =	3·72 Cum	
	0·40 =	3·36 Cum	
	0·40 =	2·28 Cum	
	0·23 =	2·48 Cum	
	Total =	55·85 Cum	
	Deduct =	55·80 Cum	
		Rs	351540·00

M.A.R. 57 (Rule 116)

Measurement Book

No. C/09 231337

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
8)	Vaccum De-watering with Skin floater clubbed with floating disc including cost of generator HOM of machinary	with vaccum pump and Suction mat and compaction screed vibrating, power Floater, blade and disc etc					
	For CC Road	1	30·00	(6·0+5·3)/2		= 169·50 Sqm	
		1	8·40	(5·3+5·0)/2		= 43·20 Sqm	
					Total =	212·70 Sqm	
		€ Rs	97·00			Rs	20638·00
						Sadhna 25/5/16	
9)	Providing groove cutting for width of 5mm to 10mm and depth 80mm - 100mm including cost of cutting machine, generator and HOM of machinery						

Measurement continued on 24/8/2016

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	including cost of blade coolant etc including						
	CC Road	3	5.30		Total =	15.90 Rmt	
		@ Rs 124.00					Rs 1972.00
10)	Providing granite slabs of Selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc						
	For R.C.C Drain						
	Raghavendra matta	1	26.50		0.90 =	23.85 Sqm	
	Road Right Side	1	36.00		0.90 =	27.80 Sqm	
		1	22.80		0.90 =	20.52 Sqm	
		1	30.00		0.90 =	27.00 Sqm	
		1	9.00		0.90 =	8.10 Sqm	
	Raghavendra matta	1	17.00		0.90 =	15.30 Sqm	
	Road Left Side	1	36.00		0.90 =	27.90 Sqm	
		1	28.00		0.90 =	25.20 Sqm	
		1	19.00		0.90 =	17.10 Sqm	
					Total =	192.87 Sqm	

Serial No.....

Name of work.....

Name of Contractor of nature of Agenc

Date of commencement of work.....

Date	Full description, etc, of work	Nu
1	2	
11)	providing chamfering	
	Only chamfered length	
	Raghavendra matta	
	Road Right Side	
	Raghavendra matta	
	Road Left Side	

Depth 6	Contents 7	Reference to last Measurement 8
long		
tal =	15.90 Rmt	
	Rs 1972.00	
roughly dressed and fixed		
ing etc		
90 =	23.85 Sqm	
90 =	27.90 Sqm	
90 =	20.82 Sqm	
90 =	27.00 Sqm	
90 =	8.10 Sqm	
90 =	15.30 Sqm	
90 =	27.90 Sqm	
90 =	25.20 Sqm	
90 =	17.10 Sqm	
tal =	192.87 Sqm	

M.A.R. 57 (Rule 116)

Measurement Book No. C/09 231338

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
		Qty limited to Tender @ Rs 642.00			=	192.00 Sqm Rs 123264.00	
11)	providing chamfering edges to stone slab, 2.5cm wide as per specification (Only chamfered length shall be recorded) etc complete as per specification.						
	Raghavendra matta Road Right Side	1	26.50		0.90 =	23.85 Sqm	
		1	31.00		0.90 =	27.90 Sqm	
		1	22.82		0.90 =	20.82 Sqm	
		1	30.00		0.90 =	27.00 Sqm	
		1	9.00		0.90 =	8.10 Sqm	
	Raghavendra matta Road Left Side	1	17.00		0.90 =	15.30 Sqm	
		1	31.00		0.90 =	27.90 Sqm	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	28.00		0.90 =	25.20 Sqmt	
		1	19.00		0.90 =	17.10 Sqmt	
					Total =	192.87 Sqmt	
		Qty limited to tender			=	192.00 Sqmt	
		@ Rs 642.00				Rs 123	
	For Chamfered Stone	326	3.00		=	978.00mt	
		Qty limited to tender			=	960.00mt	
		@ Rs 35.00				Rs 33600.00	
12)	providing two line dressing to granite stone slab/granite stone metaway as per specifications and directions of engineer in charge of the work						
	Qty vide Item no - 10				=	192.00 Sqmt	

Serial No.....

Name of work.....

Name of Contractor of nature of A

Date of commencement of work...

Date	Full description, etc, of work
1	2
13)	lead for Disposal mechanical means etc complete as per Qty

Contents 7	Reference to last Measurement 8
25.20 Sqm	
17.10 Sqm	
192.87 Sqm	
192.00 Sqm	
Rs 123	
= 978.00 mt	
= 900.00 mt	
Rs 33600.00	
ab/granite stone masonary in charge of the work	
= 192.00 Sqm	

M.A.R. 57 (Rule 116)

Measurement Book No. C/09 231339

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	@ Rs 888.00					Rs 170496.00	
	13) lead for Disposal of Debris Shall be Payable at Carriage Rates by mechanical means including loading and unloading from 0.00 to 1.0 Kilometers etc complete as per Specifications						
	Qty vide Item No-1					= 72.00 Cum	
	@ Rs 106.00					Rs 7632.00	
						Total Rs 178128.00	
						Jadhav AE 24/6/2016.	

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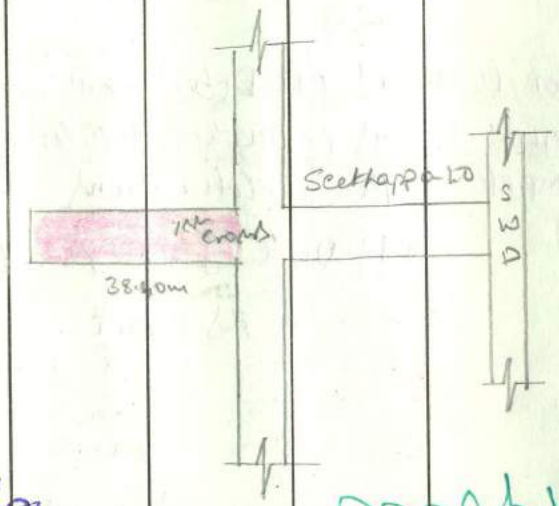
MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Certificate :- certified that the above work done Satisfactory and no-materials issued from departmentally Zadha AE 24/6/2016						



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AE 24/6/2016

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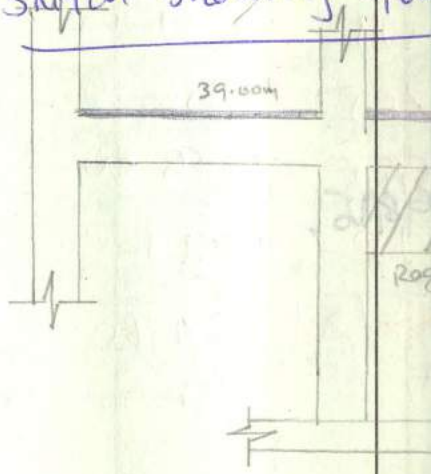
Serial No.....

Name of work.....

Name of Contractor of nature of Agenc

Date of commencement of work.....

Date	Full description, etc, of work	Nu
1	2	
	Sketch showing fu	



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AE 24/6/2016

Depth 6	Contents 7	Reference to last Measurement 8
Satisfactory m departmentally		

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M.A.R. 57 (Rule 116)

Measurement Book

No. C/09 231340

Serial No.....

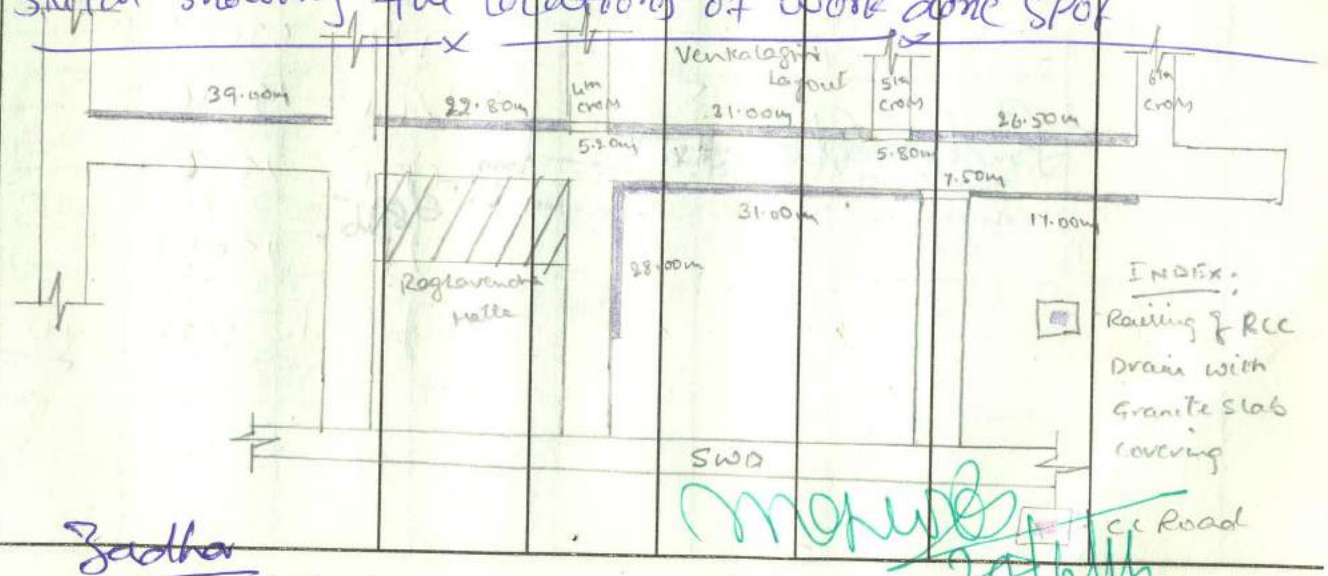
Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		

Sketch showing the locations of work done SPOT



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AE 24/6/2016

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BE-206
2016-17

MEASUREMENT BOOK

Date	Full description of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8

Audited & Admitted for Rs
1325520-00
1231160-00 by Cheque
and Rs 94360-00 by Noting
Accts. Supdt.
Byatarayanapura Div
BBMP

Asst. Engineer
Byatarayanapura Sub Division
BBMP.

JT - 13256-00
VAT - 53021-00
LCF - 13256-00
CBF - 13256-00
SD - 13501-00
Total Ded - 94360.00

4/8/16.

First & Final

SBRAO - 79/16-

W:21-7

Serial No.....

Name of work... Filling o... Vidyarao...

Name of Contractor of natu...

Date of commencement of ...

Date	Full description, etc, ...
1	2
	Work code N...
	Head of Acco...
	Administrati...
	Technical S...
	Work order ...
	Address of A...